JC03 Rec'd PCT/PTO 1 9 APR 2005

PTO-1390 (Rev. 02-2005)
Approved for use through 03/31/2007. OMB 0651-0021

U. S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

ATTORNEY'S DOCKET NUMBER TRANSMITTAL LETTER TO THE UNITED STATES 59802(49947) DESIGNATED/ELECTED OFFICE (DO/EO/US) CONCERNING A SUBMISSION UNDER 35 U.S.C. 371 INTERNATIONAL APPLICATION NO. INTERNATIONAL FILING DATE PRIORITY DATE CLAIMED PCT/US03/32672 13 October 2003 16 October 2002 TITLE OF INVENTION METHODS OF ASSESSING THE RISK OF REPRODUCTIVE FAILURE BY MEASURING **TELOMERE LENGTH** APPLICANT(S) FOR DO/EO/US David L. Keefe Applicant herewith submits to the United States Designated/Elected Office (DO/EO/US) the following items and other information: This is a FIRST submission of items concerning a submission under 35 U.S.C. 371. 2 This is a SECOND or SUBSEQUENT submission of items concerning a submission under 35 U.S.C. 371. This is an express request to begin national examination procedures (35 U.S.C. 371 (f)). The submission must include items (5), (6), (9) and (21) indicated below. The US has been elected (Article 31). х A copy of the International Application as filed (35 U.S.C. 371 (c)(2)) is attached hereto (required only if not communicated by the International Bureau). b has been communicated by the International Bureau. is not required, as the application was filed in the United States Receiving Office (RO/US). C. An English language translation of the International Application as filed (35 U.S.C. 371 (c)(2)). is attached hereto. a. b. has been previously submitted under 35 U.S.C. 154(d)(4). Amendments to the claims of the International Application under PCT Article 19 (35 U.S.C. 371 (c)(3)) Х a. are attached hereto (required only if not communicated by the International Bureau). have been communicated by the International Bureau. b. have not been made; however, the time limit for making such amendments has NOT expired. C. d. have not been made and will not be made. 8. An English language translation of the amendments to the claims under PCT Article 19 (35 U.S.C. 371 (c)(3)). An oath or declaration of the inventor(s) (35 U.S.C. 371 (c)(4)). An English language translation of the annexes of the International Preliminary Examination Report under PCT 10. Article 36 (35 U.S.C. 371 (c)(5)). Items 11 to 20 below concern document(s) or information included: 11. An Information Disclosure Statement under 37 CFR 1.97 and 1.98. 12. An assignment document for recording. A separate cover sheet in compliance with 37 CFR 3.28 and 3.31 is included. A preliminary amendment. 13. Х 14. An Application Data Sheet under 37 CFR 1.76. 15 A substitute specification. 16 A power of attorney and/or change of address letter. 17. A computer-readable form of the sequence listing in accordance with PCT Rule 13ter.2 and 37 CFR 1.821 - 1.825. 18 A second copy of the published International Application under 35 U.S.C. 154(d)(4). 19 A second copy of the English language translation of the international application under 35 U.S.C. 154(d)(4). 20. Other items or information: Return Receipt Postcard, Unexecuted Declaration, Petition and Power of Attorney; Petition to Revive Unintentionally Abandoned Patent Application.

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U. S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

INTERNATIONAL APPLICATION NO. ATTORNEY'S DOCKET NUMBER PCT/US03/32672 59802(49947) The following fees have been submitted **CALCULATIONS** PTO USE ONLY 21. | x | Basic national fee\$300 300.00 | x | Examination fee 22. If International preliminary examination report prepared by USPTO and all claims satisfy All other situations 200.00 23. | x | Search fee Search fee (37 CFR 1.445(a)(2)) has been paid on the international application to the USPTO as an International Searching Authority......\$100 International Search Report prepared and provided to the Office\$400 100.00 All other situations. TOTAL OF 21, 22 and 23 = 1,000.00 Additional fee for specification and drawings filed in paper over 100 sheets (excluding sequence listing or computer program listing filed in an electronic medium). The fee is \$250 for each additional 50 sheets of paper or fraction thereof. Number of each additional 50 or fraction **Total Sheets** Extra sheets thereof (round up to a whole number - 100 = /50 =× \$250.00 Surcharge of \$130.00 for furnishing the oath or declaration later than 30 months 130.00 from the earliest claimed priority date (37 CFR 1.492 (e)). NUMBER FILED | NUMBER EXTRA CLAIMS RATE Total claims 50 - 20 =30 50.00 1.500.00 Independent claims 9-3 = 200.00 1,200.00 6 х MULTIPLE DEPENDENT CLAIM(s) (if applicable) + 0.00 0.00 TOTAL OF ABOVE CALCULATIONS = 4,430.00 Applicant claims small entity status. See 37 CFR 1.27. Fees above are reduced by 1/2. 2.215.00 SUBTOTAL = 2,215.00 Processing fee of \$130.00 for furnishing the English translation later than 30 months from the earliest claimed priority date (37 CFR 1.492 (f)). TOTAL NATIONAL FEE = 2,215.00 Fee for recording the enclosed assignment (37 CFR 1.21 (h)). The assignment must be accompanied by an appropriate cover sheet (37 CFR 3.28, 3.31). \$40.00 per property TOTAL FEES ENCLOSED = 2,215.00 Amount to be refunded: Amount to be \$ charged: A check in the amount of \$ to cover the above fees is enclosed. in the amount of \$ Please charge my Deposit Account No. 04-1105 2,215.00 to cover the above fees. A duplicate copy of this sheet is enclosed. X The Commissioner is hereby authorized to charge any additional fees which may be required, or credit any C. 04-1105 . A duplicate copy of this sheet is enclosed. overpayment to Deposit Account No. Fees are to be charged to a credit card. WARNING: Information on this form may become public. Credit card Information should not be included on this form. Provide credit-card information and authorization on PTO-2038. NOTE: Where an appropriate time limit under 37 CFR 1.495 has not been met, a,patition to revive (37 CFR/1.137 (a) or (b)) must be filed and granted to restore the International Application to pending status. SEND ALL CORRESPONDENCE TO: SIGNATURE: Peter C. Lauro **EDWARDS & ANGELL, LLP** Peter C. Lauro P.O. Box 55874 NAME Boston, Massachusetts 02205 (617) 439-4444 32,360 **CUSTOMER NUMBER: 21874** REGISTRATION NUMBER

PTO/SB/17 (12-04v2)

Approved for use through 7/31/2006. OMB 0651-0032 U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no person are required to respond to a collection of information unless it displays a valid OMB control number Complete if Known Effective on 12/08/2004. Fees pursuant to the Consolidated Appropriations Act, 2005 (H.R. 4818). Not Yet Assigned Application Number FEE TRANSMITTAL Filing Date April 19, 2005 First Named Inventor David L. Keefe For FY 2005 **Examiner Name** Not Yet Assigned X Applicant claims small entity status. See 37 CFR 1.27 N/A Art Unit TOTAL AMOUNT OF PAYMENT 59802(49947) 2.215.00 Attorney Docket No. METHOD OF PAYMENT (check all that apply) Money Order None Other (please identify): x Deposit Account Deposit Account Number: 04-1105 Deposit Account Name: Edwards & Angell, LLP For the above-identified deposit account, the Director is hereby authorized to: (check all that apply) Charge fee(s) indicated below Charge fee(s) indicated below, except for the filing fee Charge any additional fee(s) or underpayment of Credit any overpayments fee(s) under 37 CFR 1.16 and 1.17 **FEE CALCULATION** 1. BASIC FILING, SEARCH, AND EXAMINATION FEES **SEARCH FEES EXAMINATION FEES FILING FEES** Small Entity **Small Entity** Small Entity **Application Type** Fee (\$) Fee (\$) Fee (\$) Fees Paid (\$) Fee (\$) Fee (\$) Fee (\$) Utility 300 150 500 250 200 100 100 Design 200 100 50 130 65 Plant 200 100 300 150 160 80 Reissue 300 150 500 250 600 300 Provisional 100 200 O O 0 2. EXCESS CLAIM FEES **Small Entity** Fee (\$) Fee (\$) Fee Description Each claim over 20 (including Reissues) 50 25 Each independent claim over 3 (including Reissues) 200 100 Multiple dependent claims 360 180 **Total Claims** Extra Claims Fee Pald (\$) **Multiple Dependent Claims** Fee (\$) 30 x 50.00 1500 Fee Paid (\$) Fee (\$) Indep. Claims Fee Paid (\$) Extra Claims Fee (\$) 6 × 200.00 1200.00 3. APPLICATION SIZE FEE If the specification and drawings exceed 100 sheets of paper (excluding electronically filed sequence or computer listings under 37 CFR 1.52(e)), the application size fee due is \$250 (\$125 for small entity) for each additional 50 sheets or fraction thereof. See 35 U.S.C. 41(a)(1)(G) and 37 CFR 1.16(s). **Total Sheets** Extra Sheets Number of each additional 50 or fraction thereof Fee Paid (\$) Fee (\$) 47 - 100 = (round up to a whole number) x /50 4. OTHER FEE(S) Fees Paid (\$) Non-English Specification, \$130 fee (no small entity discount)

Other (e.g., late filing surcharge):

2631 Basic National Stage fee
2633 National Stage Search Fee - all other ...
2632 National Stage Search Fee - all other situations
2617 National Stage cath or declaration after thirty ...
2615 National Stage cath or declaration after thirty ...
2616 National Stage cather a potra total (over Nephbl) 150.00 100.00 250.00 65.00 National Stage claims - extra total (over twenty) 525.00 2614 National Stage claims - extra independent (over 600.00 Petition to Revive Untintentionally Abandoned Application 750.00 SUBMITTED BY Registration No. Signature 32,360 Telephone (617) 439-4444 (Attomey/Agent) Name (Print/Type) Peter C. Lauro Date April 19, 2005

Application No. (if known): Not Yet Assigned

Attorney Docket No.: 59802(49947)

Certificate of Express Mailing Under 37 CFR 1.10

I hereby certify that this correspondence is being deposited with the United States Postal Service as Express Mail; Airbill No. EV438976710US in an envelope addressed to:

MS PCT Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

on <u>April 19, 2005</u> Date

Signature

George N. Chaclas

Typed or printed name of person signing Certificate

46,608

Registration Number, if applicable

Telephone Number

Note: E

Each paper must have its own certificate of mailing, or this certificate must identify

each submitted paper.

Fee Transmittal (1 page)

Application Data Sheet (2 pages)

Transmittal Letter to the United States Designated-Elected Office (2

pages)

Information Disclosure Statement

Form PTO/SB08a/b

Unexecuted Declaration/Power of Attorney

Petition to Revive Unintentionally Abandoned Patent Application

Return Receipt Postcard

Charge \$2,215.00 to deposit account 04-1105